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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/945,555	08/30/2001	Brent Gilgen	303.778US1	1835
21186 73	7590 01/20/2004		EXAMINER	
SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.			PERT, EVAN T	
P.O. BOX 2938 MINNEAPOLIS, MN 55402			ART UNIT	PAPER NUMBER
	•		2829	
			DATE MAILED: 01/20/2004	4

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)
Office Action Summary		09/945,555	GILGEN ET AL.
		Examiner	Art Unit
		Evan Pert	2829
P riod	The MAILING DATE of this communication reply	on appears on the cover sheet wi	ith the correspondence address
THE - Ex aft - If t - If t - Fa - An	HORTENED STATUTORY PERIOD FOR F E MAILING DATE OF THIS COMMUNICAT tensions of time may be available under the provisions of 37 (er SIX (6) MONTHS from the mailing date of this communicati he period for reply specified above is less than thirty (30) days NO period for reply is specified above, the maximum statutory illure to reply within the set or extended period for reply will, by y reply received by the Office later than three months after the rined patent term adjustment. See 37 CFR 1.704(b).	ION. CFR 1.136(a). In no event, however, may a ron. s, a reply within the statutory minimum of third period will apply and will expire SIX (6) MON statute, cause the application to become AE	reply be timely filed by (30) days will be considered timely. ITHS from the mailing date of this communication. SANDONED (35 U.S.C. § 133).
1)⊠	Responsive to communication(s) filed on	10 October 2003.	
2a)[This action is FINAL . 2b)⊠	This action is non-final.	
3)[Since this application is in condition for a closed in accordance with the practice ur		
Dispos	ition of Claims		
5) <u>□</u> 6)⊠ 7)□	Claim(s) <u>1 and 4-75</u> is/are pending in the 4a) Of the above claim(s) <u>10,13,24,29-32</u> Claim(s) is/are allowed. Claim(s) <u>1,4-9,11,12,14-23,25-28,33-37,3</u> Claim(s) is/are objected to. Claim(s) are subject to restriction is	,38 and 44 is/are withdrawn from 39-43 and 45-75 is/are rejected	
	ition Papers	·	
9)∑	The specification is objected to by the Exa	aminer.	
10)[The drawing(s) filed on is/are: a)	accepted or b) objected to	by the Examiner.
	Applicant may not request that any objection	to the drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).
	Replacement drawing sheet(s) including the o	correction is required if the drawing	(s) is objected to. See 37 CFR 1.121(d).
11)	The oath or declaration is objected to by t	he Examiner. Note the attached	d Office Action or form PTO-152.
Priority	under 35 U.S.C. §§ 119 and 120		
* 13) 14)	Acknowledgment is made of a claim for form All b) Some * c) None of: 1. Certified copies of the priority documents. 2. Certified copies of the priority documents. 3. Copies of the certified copies of the application from the International Experiments. See the attached detailed Office action for Acknowledgment is made of a claim for dominice a specific reference was included in the 37 CFR 1.78. a) The translation of the foreign language Acknowledgment is made of a claim for dominication of the foreign language acknowledgment is made of a claim for dominication of the first sentence was included in the first sentence.	iments have been received. Iments have been received in A per priority documents have been Bureau (PCT Rule 17.2(a)). In a list of the certified copies not mestic priority under 35 U.S.C. The first sentence of the specific The provisional application has be mestic priority under 35 U.S.C.	received in this National Stage received. § 119(e) (to a provisional application) ation or in an Application Data Sheet. een received. §§ 120 and/or 121 since a specific
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2) 🔲 No	ent(s) tice of References Cited (PTO-892) tice of Draftsperson's Patent Drawing Review (PTO-94 primation Disclosure Statement(s) (PTO-1449) Paper N	18) 5) Notice of I	Summary (PTO-413) Paper No(s) nformal Patent Application (PTO-152)

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DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 52-59, 62-64, 66-67, 70-71 and 73-74 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 53, there is a lack of antecedent basis for "the first layer".

Claims 52-59, 62-64, 66-67, 70-71 and 73-74 recite an undefined "predetermined shape." Some examples of "shapes" are disclosed in the specification, drawings and text. Yet, if the claimed shape is actually important to the invention, applicant should be able to, and *must*, positively recite limitations of the shape, to meet the requirements of 35 USC 112, 2nd paragraph, requiring applicant to specifically point out the distinctive features of the claimed invention.

For purposes of examination, the claimed "predetermined shape" is an ill-defined "substantially cone-shape."

Claims 1, 4-9, 11-12, 14-23, 25-28, 33-37, 39-43, 45-51, 60-61, 65, 68-69, 72 and 75 recite "substantially cone-shaped," which applicant insists clearly describes a range of shapes supported by the specification that are not actually "cone-shaped" by the mathematical or dictionary definition [p. 31-32 response dated 10/10/03].

The plain meaning of "cone-shaped" is the shape of a right triangle rotated around its base [Merriam-Webster].

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As an example of confusion from the phrase "substantially cone-shaped," the shapes of the container capacitor electrodes on the cover of U.S. 5,162,248 would not normally be considered "substantially cone-shaped" to one of ordinary skill in the art, yet meet applicant's argumentative definition [i.e. a cylinder that is narrower toward the bottom as argued at p. 32 of the response dated 10/10/03].

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In the '248 patent, the actual photographs purportedly show "substantially coneshaped" electrodes, but the drawings show a cylindrical electrode. How does one distinguish a "cone-shape" as in the *photographs* of the '248 patent from a seemingly perfectly cylindrical or crown-shape as depicted in the *drawings* of the '248 patent?

As a different example, when one looks to Fig. 3 of Yamamoto et al., one sees a "substantially cone-shaped" electrode because of a cylinder being narrower toward the bottom [i.e. per applicant's argumentative definition of substantially cone-shaped]. Yet, the figures show no taper or narrowing at all. How does one distinguish the "substantial cone-shape" of the claimed invention from the "inherently tapered cylinder" shape of the prior art photographs depicted as perfectly "crown-shaped" or "container-shaped" or "cup-shaped" in the drawings?

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

⁽e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

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Claim 51 is rejected under 35 U.S.C. 102(e) as being clearly anticipated by U.S.

6,215,187 [Fig. 25].

Claim 52 is rejected 35 U.S.C. 102(a) as being clearly anticipated by Yamamoto

et al. [Fig. 2].

Conclusion

4. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Evan Pert whose telephone number is 703-306-5689.

The examiner can normally be reached on M-F (7:30AM-3:30 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Kamand Cuneo can be reached on 703-308-1233. The fax phone number

for the organization where this application or proceeding is assigned is 703-308-7722.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is 308-0956.

ETP

January 12, 2004

EVAN PERT